



-----Cooperative ,Professional ,reliable-----

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1.1 GENERAL SAFETY REQUIREMENTS :

1.1.1 Safety Instruction for Erection ,Commissioning ,Operation and Maintenance .

1.1.2, Safety Equipment for Operating Personnel .

1.1.3, Safety Signs .

1.1.4, Safety at Site

1.1.5, Transfer of Risk for Fire Protection Systems .

1.1. General Safety Requirements



Attention!

All provisions, regulations and laws issued by the employers' liability insurance associations for safety provisions for workers and prevention of accidents and which shall be applicable to German and European Law as well as to the respective national law and the building owner's rights are basically to be followed.

1.1.1. Safety Instructions for Erection, Commissioning, Operation and Maintenance

In addition to the safety regulations in force in the user country and any in-plant safety regulations concerning operation, maintenance and erection, the following general instructions must be observed.

Accident prevention rules should be conspicuously displayed in a position which is accessible to everyone working in the plant. Additional instruction should be provided by the safety officer in charge.

Each person having to do with erection, commissioning, operation, maintenance or repair of plant equipment must have read and understood all corresponding Manuals A, B, C and D. The provisions furnished by the electrical equipment supplier(s) shall apply in regard to all electrical equipment.

Alterations/Modifications

Alterations or modifications of plant by the user shall only be carried out after consultation with the supplier company. The supplier will not accept any liability for arbitrary measures or such defects or damage that may result there from.

Personnel

The plant as supplied is in conformity with what is the current state of technology, is operationally dependable and safe and will have to be operated by qualified or at least job trained personnel in conformity with applicable instructions.

Noncompliance will:

- create hazards to the health and life of user or third parties.
- Have detrimental impacts on the plant, on individual products or on other property.
- Create risks liable to affect efficient performance of the plant.

Interlocking conditions

The safety of the machine in operation will be ensured by electrical interlocks. These must be checked at regular intervals.

Responsibility for restarting of machines and equipment:

- Machines should only be restarted under the supervision of a person duly authorized by the plant user. Before restarting any machine, this person must ensure that operators are in no way endangered by the machine.
- The operating elements of the machine shall only be actuated by suitably trained personnel.
- When the machine is in operation, operators must constantly be present in its associated control pulpit or station. User will moreover see to it that unauthorized persons will be kept away from the plant.

Function checks, maintenance work:

- User is obliged to have the plant inspected, at least once per shift, for externally recognizable damages and deficiencies. Changes discovered that may affect equipment dependability and safety shall be reported and made good without delay.
- User to take care that the plant will be operated while in unobjectionable state and condition only.
- Maintenance, repair and cleaning work is prohibited on machines and equipment in operation.
- Inspections and/or checks of individual plant components may only be carried out in strict compliance with applicable safety regulations and while the respective machine or equipment unit is operating.

Emergency stop - emergency OFF switch

Emergency stop switch: Movement is stopped by electrically controlled blocking of drive.

Emergency OFF switch: Movement is stopped by cutting out power supply.



Caution!

Emergency switches should be inspected for functional ability at regular intervals.

Protective devices:

Existing protective devices may only be removed for repair and maintenance purposes and should be duly refitted after work has been finished.



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Job area safety:

- Measures should be taken to ensure the safety of the job area the way existing conditions may dictate.
- Electric power should be switched off and steps should be taken to prevent accidental enclosures.
- All responsible executives should be notified in advance.
- The name of the responsible executive, date and time should be stated on signs.

Transport, Sliding:

- Only such transport facilities will be used which are suitable for the intended purpose and which are in unobjectionable state and condition (chains, ropes, suspension gears).
- All rigging or hang-on aids provided should definitely be used (eyebolts, lugs).
- Moving or loose parts on equipment should be reliably secured for transport.
- Communication with the crane operator by one person only.

Working Platforms:

- No maintenance and repair work shall be allowed to be performed unless safe working platforms are provided.
- Railings, stairs, platforms, crossovers, gangways and covers are to be kept in a neat and clean state and checked for safety at regular intervals.

Hard-to-Reach Job Areas

Hard-to-reach job areas are to be fitted with suitable connections such as electric power receptacles, compressed air and possibly water.

Fire Endangered Areas

Do not use any open flame in highly inflammable areas and prohibit all smoking.

Oil Leaks

No saw dust or cotton waste shall be used to remove leak oil due to the fire hazard this would entail. Use commercial type hazardous neutralizing agents only.

Utilities

- Never have pumps started against closed suction-side shutoff valves.
- It is a basic rule that the sense of rotation of all drives shall be checked in inching mode prior to initial startup of pump units and after each motor change.
- The instructions furnished by supplier/manufacturer companies shall basically be observed for all maintenance/assembly of plant components.
- Hydraulic / Pneumatic Systems:
The following procedure is generally to be adopted for all valves, pumps, cylinders etc.:
 - ◊ Un-pressurize systems complete, for instance via measuring hose on measuring couplings.



Note:

Certain accumulators such as those of the balancing system will have to be kept under pressure in spite of pressure system relief.

Lock mechanical equipment, for example by Safety pins.

- ◊ Close shutoff valves in pressure and control oil lines.
- ◊ Cut out electrical equipment and protect against unforeseen switch-on.
- The position and condition of seals and packing is to be particularly checked during and after any work on equipment units.
- Retightening of pipe screw joints and flange connections as well as any other sealing measure shall be allowed to be carried out only with the pipeline system in un-pressurized state.
- Mechanical,- welding or soldering work is not allowed to be carried out on hydraulic accumulators.

1.1.2. Safety Equipment for Operating Personnel

All persons assigned to any job within the plant will have to wear suitable protective garments. Instruction by the safety officer in each case.

1.1.3. Safety Signs

Safety signs are intended to ensure safety of people working in the plant. These signs comprise:

- Prohibitive signs
- Warning signs
- Mandatory signs
- Rescue signs
- Informative signs
- Signs identifying permanent hazard areas
- Signs for protection of specific work areas

It is necessary to post these signs during and after assembly in job and hazard areas throughout the plant.

All persons employed will be informed on the significance of all safety signs prior to commencement of their activities, and in subsequent periods at adequate intervals, but at least once a year.

The responsibility for posting such signs shall rest with the plant user.



Caution:

Machine manufacturer shall not be liable in case of noncompliance with above safety instructions.

Prohibitive signs



No smoking



Fire, open flame
and smoking
prohibited



No pedestrians



Unauthorized per-
sons keep off



No access for per-
sons with pace-
maker



Extinguishing with
water prohibited



No drinking water



Prohibited for floor
vehicles



Do not deposit or
store

Warning signs



Warning:
inflammable sub-
stances



Warning:
substances
explosive



Warning:
poisonous
substances



Warning:
corrosive
substances



Warning:
radioactive
substances



Warning:
loads passing
substances



Warning:
transport vehicles
passing



Warning:
high voltage



Warning:
dangerous area



Warning:
danger of
crushing



Warning:
danger of
laser beam

Mandatory signs



Wear goggles



Wear protective helmet



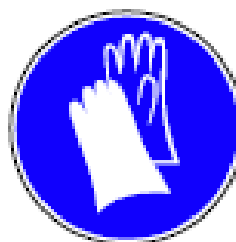
Wear ear muffle



Wear respirator



Wear safety shoes



Wear protective gloves

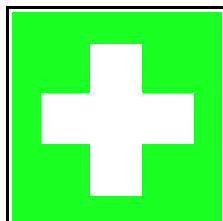


For pedestrians

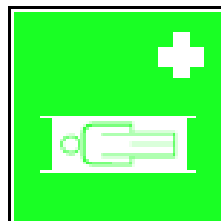


Use crossover

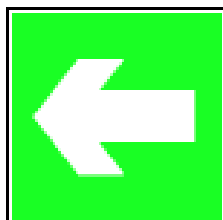
Rescue signs



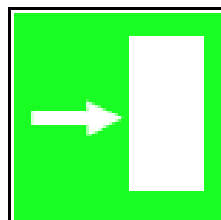
Indication of „first aid“



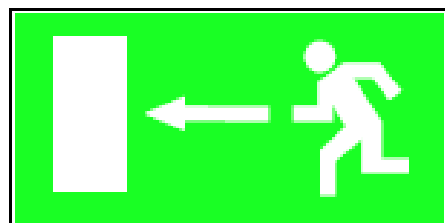
Side stretcher



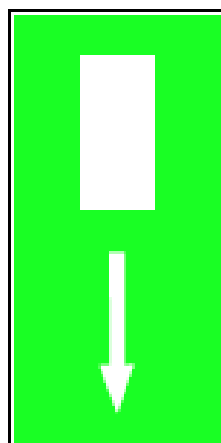
Arrow of direction *
for first-aid-kits



Escape route



Escape route



Emergency exit

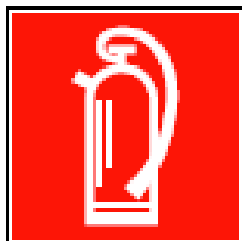
* This arrow of direction shall be used only in connection with another rescue sign for first-aid-kits



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Information signs



Indication of
fire extinguisher DIN 4066

Signs identifying permanent hazard areas



Identification of permanent hazard areas for instance
such places which involve the risk of hitting, crushing,
and tumbling, stumbling of persons or dropping of loads.
Steps, floor hatches etc.



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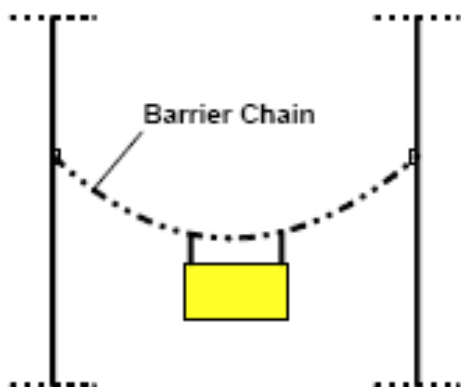
Board indicating cutout and reconnection requirements for drives during repair or no production shifts

Cutout and Reconnection of drives	
Date: _____ Time: _____	Date: _____ Time: _____
Demand - Cutout of following drives	Demand - Reconnection of following drives
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____
Request by _____ Signature / Function	Request by _____ Signature / Function
Effected by _____ Signature / Function	Effected by _____ Signature / Function

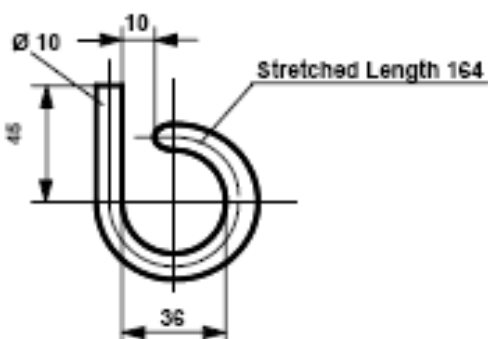
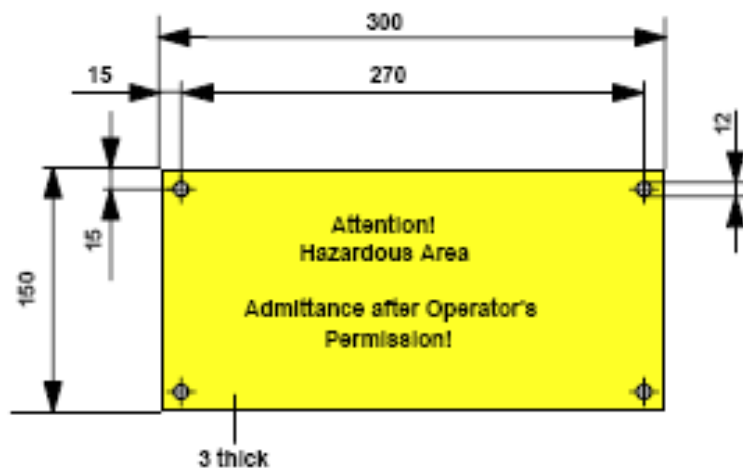
Material: AIMg3F23

- Type:
- Manufactured to SEO and / or screen printing method, white background, black characters;
 - With fixing holes
 - Size to be determined by user

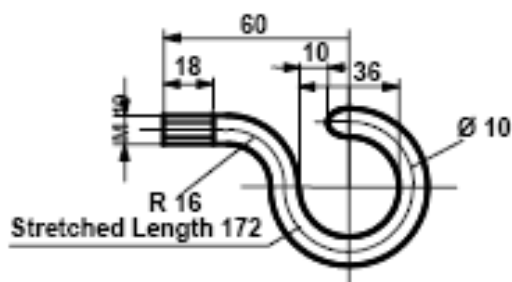
Warning Plate:



Fixed by 3 chain links on every barrier chain,
 additionally screwed or hooked on walls and equipment.



Weld on railing or equipment



Fixed to foundation with dowel



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1.1.4. Safety at Site

Purpose and Range of Application

These guidelines are applicable to our field staff.

They serve to promote the safety awareness and hence to safeguard the health and efficiency of our field staff. After having done a good and successful job, they shall complete each day or shift in good health and in the absence of any injury.

These guidelines are to be understood as supplement to the ruling safety regulations and will be distributed to all the HuaYi Consulting field staff.

Responsibility for Safety

Our board of management is conscious of its duty to care for and protect the safety and health of all the staff. It has incorporated in these responsibility supervisors who are authorized to issue directives.

The prevention of dangers of accidents is a legal obligation to which, besides the contractor, all the staff, too, is subjected without any exception. The responsibility to implement safe working practices and the proper attitude in regard to safety hence concerns all of us.

On the basis of our staff's readiness to assume responsibility and their comprehensive cooperation, we aim at creating and maintaining as safe and healthy working conditions as possible.

Responsibility of Contractor's Management

The ultimate responsibility for safety at the working place and health of our staff rests with our board of management who is responsible that the ruling safety instructions and/or accident prevention rules are observed and enforced at our work. For our sites the leader of the organization unit (OE) field assembly/commissioning is the authorized person for job safety. For the individual site, our respective senior site manager and/or site manager is in charge of job safety matters. They are authorized to order measures for job safety.

The supervisors at the site are directly responsible for the employees subordinated to them. They supervise the work and control that the measures ordered are carried out. They take care that the work is done with due observance of the regulations for safety and health of all persons within the site/assembly area.

The executives carry out regular inspections of their sites in regard to job safety.



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Responsibility of Employees

The employees are obliged to take care of their own safety and health as well as of those of other persons and to cooperate with the supervisors of the contractor to prevent dangers of accidents. They are also obliged to use the prescribed safety outfit.

The employees shall use safe working practices and processes, notify practices and events which endanger the safety and cooperate in the case of investigations into accidents.

General Safety Instructions:

- Make full use of your personal protection outfit!
- Make yourself familiar with the first-aid equipment!
- Work can be better performed in a tidy and well-arranged area. Keep your working place always in good order, especially the working platforms!
- Safe access to and exit from the working area as well as keeping the working area in a safe state are legal demands for the observance of which you are also responsible. Abide by this in your own interest!
- Keep away from the areas of suspended loads!
- Observe warning signs and block off!
- Keep traffic routes free!
- Do not improvise! Use proper tools and facilities!
- Help new fellow workers, especially young workers, by warning them against dangers and risks known to you! Let other persons benefit from your knowledge and experience!
- Do not improperly use social equipment, site containers, staff containers, sanitary facilities and canteens!
- The conditions at site change almost daily. Protect yourself and others by constant vigilance!

Personal Safety Outfit

It is not always possible to eliminate dangers by technical or organizational measures. The contractor then has to provide personal safety outfits which have to be used by each worker.

Protection of Head

Whenever there is a danger of head injuries by dropping, toppling over or thrown away objects or by hitting against edges and obstacles, hard hats are to be worn which are examined and identified to the valid standard.



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Protection of Eyes

The eyes are our most sensitive and valuable sensory organs.

- Everyone should have at least one pair of protective goggles with him at site to protect his eyes at any time against dust or metal particles flying about.
- In the case of danger by infrared, ultraviolet or laser beams appropriate personal safety outfits have to be made available and have to be worn.

Protection of Hands

The hands are our mostly used „tool“. They get damaged by cracks, pricks, cuts, dislocations, bruises, crush injuries, burns and acid burns.

Therefore, always wear suitable hand protection!

Protection of Feet

The feet are endangered at site especially by falling objects or by stepping into sharp or pointed objects.

Therefore, always wear appropriate safety shoes!

Cranes

Observe the applicable safety instructions and accident prevention rules for cranes.

Possible causes of accidents in conjunction with cranes and hoisting appliances are as follows:

- Human failure of crane operator, attached or other persons involved in the hoisting procedure; inattentiveness, boredom, readiness for risks, inobservance of applicable guidelines or faults may be the cause of a failure.
- Insufficient attachments - in regard to bad weather conditions such as strong wind.
- Inappropriate load receiving means, unsuitable or damaged sling means.
- Improper use and maloperation of hoisting appliances.
- Tools or devices dropping from the crane due to detachment by crane movement.
- Possible contact with current-conducting collector wires or obstruction by restricted space.
- These sources of dangers are to be recognized and secured. Moreover, other sources of danger have to be considered which may arise in the respective working area.



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Hand-guided Electrical Tools

The following guidelines have to be observed irrespective of whether the tools have been made available by SMS DEMAG or others.

Most accidents are caused by incorrect handling:

- The nearest electric connection is to be used to avoid long cable routes.
- It has to be ensured that cables are not routed in traveled areas etc. or through water.
- The tools are to be checked carefully prior to being used.
- Tools being live are not allowed to be deposited and left unattended.
- For certain work the protection of eyes is prescribed and sometimes also the protection of ears necessary. This protection outfit must absolutely be worn!
- Whenever an electrical defect comes up the tools are to be put out of operation. Repairs are allowed to be done by qualified persons only.
- Normally tools for AC with 240 V rated voltage are used. For work to be done in confined conductive rooms (for example tanks) only low voltage (12 V) or machines actuated by compressed air under protective measures are to be used.

Grinding Machines

The use of grinding machines calls for observation of the instructions concerning grinding bodies and grinding machines. You are also requested to observe the following items applicable for all grinding machines inclusive of portable electrical and pneumatic grinding devices.

- Grinding tools and disks are allowed to be used only after the protective devices have been fitted.
- Grinding bodies are allowed to be clamped only on grinding or abrasive cutting machines, never on circular saw shafts.
- Grinding bodies are permitted to be clamped on by experienced staff only. Defective grinding bodies are not allowed to be used.
- The highest permissible circumferential speed of the grinding bodies must not be exceeded. The data given on the sticker to the grinding body of the max. Permissible rotational speed must conform to that of the machine as per identification plate. Those grinding bodies not identified by stickers are not allowed to be used.
- It is a must to wear eye protection in the case of grinding work.

Work in free Heights

A precondition for work to be done in higher elevation is the physical aptitude. Workers suffering from fainting spells, dizziness or similar weaknesses must not be charged with such work. Since such ailments are not obvious in most cases, workers have to inform their superior thereof, even if such ailments are only temporary.

Ladders:

- Examine ladders regularly.
- Remove defective ladders from their use immediately and reliably.
- Have defective ladders repaired properly.
- Secure ladders against:
 - ◊ Sliding
 - ◊ overturning, for instance by lashing the ladder head
 - ◊ excessive deflection
- Ladders at traffic routes are to be particularly protected by blocking offs or warning signs.
- Lean-on ladders must extend at least 1,0 m beyond the exit point if there is no other equivalent holding possibility.
- Stepladders are not allowed for climbing over.
- Ladders are usually used as accesses to working places only if stairs or other installed footsteps are missing.
- Work of minor extent only is allowed to be done from lean-on ladders.

Scaffolds

- Scaffolds are to be installed and maintained by a specialist company. Besides the legally prescribed acceptances by a competent supervisory person from Client no other person is authorized to change the scaffolds or have them dismantled. Modifications and dismantling are allowed to be done exclusively by the scaffold construction company.
- No materials/parts are allowed to be tilted, dropped or thrown down from scaffolds.
- Notify „weak points“to your superior immediately.
- Do not overload the scaffold! Keep ladders and gangways free!
- Ladders are to be used to enter the scaffolds. Climbing to scaffolds is strictly prohibited.



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Work on Structural Components

- Structural components must be sufficiently strong and stable if work has to be carried out from them.
- It must be possible to enter and leave a working place safely and quickly at any time. A fall of persons or the dropping of objects must be prevented during work.
- At the outer edges of a building and at larger openings on a structural component area at least a 3-part side protection has to be provided if the fall height exceeds 2.0 m and the distance to strong structural components is more than 0.3 m. Unless a side protection can be fitted, the fall of persons or the dropping down of subjects must be prevented by providing safety (catcher) stands, protective walls or catcher nets which substantially extend up to immediately underneath the fall-down edge.
- For construction work occurring at short notice and suddenly, scaffold construction work or similar technical measures will not be possible for various reasons. In that case, the safety belts are to be used for personal protection.
- A further preventive measure is the installation of danger signs to increase the safety of persons working in that area or passing underneath.

Mobile Gear

Only authorized drivers are permitted to operate the mobile gear. This also relates to the staff of the subcontractors.

Dangers by Electric Current

Defective electrical equipment and materials mean a high risk for life and health. Defective electrical devices are to be removed from further use immediately and reliably and to be repaired by an electrical specialist.

Danger by electric current is impending in the case of:

- damaged insulation of mobile or firmly installed connection and extension lines
- kinks in the lines
- exposed single wires at cable entries or in the cable routing
- defective plugs
- not regular and improper examination of electrical equipment and materials



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Dangerous Matters

Dangerous matters must be stored and used in line with safety regulations.

Containers and packing containing dangerous working matters must be clearly identified. Containers normally containing foodstuffs or beverages are never allowed to be used!

Dangerous matters are:

- lye solutions
- acids
- degreasing agents and solvents
- bitumen, tear, pitch
- PUR painting and insulation materials

Attention is directed to the safety instructions „Handling of Carcinogenic Materials“.

First Aid

A sufficient first-aid outfit must be available at site at any time. It is to be provided either by the contractor or by the customer. To render first aid, a completely equipped „First-Aid Kit“ must be available which will be checked either by the supervisor or the nominated and trained first aid. The first-aid outfit is not allowed to be used for any purposes other than originally intended.

When establishing a site our senior site manager/site manager clarifies with the customer and the subcontractors which first-aid measures are taken at the place of accident and for effective rescue operations from the site via the doctor on emergency call and transport to a suitable hospital.

For all accidents first aid is to be rendered immediately and the superior to be informed without delay who will possibly initiate rescue measures.

Notification of Accident

All accidents however slight must be notified to the superior immediately since each documented injury may be important for future determination of a work accident. The senior site manager/site manager is responsible for documentation of the notification of accident.



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Tel : +86 (0)792 4211749
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Home Page : www.hyconsultingltd.cn

Fire Protection

Suitable fire extinguishers are made available at site for fire protection.

Pay special attention to the fire protection regulations when welding and abrasive cutting work is done.

Gas bottles and inflammable materials are to be stored appropriately and checked regularly to prevent fires.

Observe „No Smoking“ signs and do not use any matches or other open flame near inflammable materials.

Special requirements of the customer for fire protection are to be adhered to strictly.

Behavior at Customer's Site

It is the objective of our company to fulfill the expectations of our customers within the framework of the agreements reached. We shall not only render our services promised, but our staff at sites shall also adapt themselves into our customers' works order and organization.

Please always keep in mind that at site you are the personal representative from HuaYi and that your professional qualifications and behavior are important for the success of your work and consequently for the economic success of our company and the security of our jobs.

1.1.5 is a Template from Client SMS Demag AG of Huayi Consulting . Please Change the company Name accordingly .



-----Cooperative ,Professional ,reliable-----

HuaYi Metallurgical Technical Consulting. Ltd. Ruichang City
瑞昌市华毅钢铁技术咨询有限公司
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1.1.5. Transfer of risk for fire protection systems

(To be carried out prior to the hot commissioning of "First Coil")

1. Confirmation

Of the readiness for operation of all envisaged and installed fire alarm systems and fire extinguishing systems.

The Customer _____

Represented by Ms./Mr. _____

hereby confirms

that the

- fire alarm systems and fire extinguishing systems

envisaged and installed

for safe hot commissioning of the plant (plant section)

Designation:

Are ready for operation.

Date _____

Signature of Customer

Signature of SMS DEMAG AG

2. Transfer of risk to the Customer

It is hereby confirmed,
that the responsibility for the fire alarm systems and fire extinguishing systems as from

Date: _____ Time: _____
for the following plants / plant sections

Designation:

shall be transferred to the Customer and assumed by him

Date: _____

Signature of Customer

Signature of SMS DEMAG AG
